

Representing an impressive part of the total European market value, Belgium life sciences industry is a top leader. Companies are supported by an attractive local environment and renowned life sciences and biotech ecosystem for testing and developing new products and processes.

Certech expertise ranges from products and processes development to advanced characterization, thereby offering a broad and diversified technical and scientific support to partners and customers looking for a global expertise in the field of chemical and life sciences.

Thanks to its cross-functional expertise, Certech support partners from young start-ups to multinational biopharmaceutical, health biotech and medtech industries.



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- Research & development partner and supplier of analytical and technological services in the fields of environment, materials and processes.
- Quality management system according to the ISO 9001 standard.
- Recognised expert in the field of VOCs and odor.
- Accredited by Renault Nissan and Stellantis (visit our website for more information).
- Authorized by TOYOTA to perform VOC & odor tests.
- Participation in CEN, ISO and AFnor standardisation committees and drafting of standards (ISO 16000, ISO 12219, EN 13725, EN 16846-1).
- Approved as service provider according to the French Ministry of Higher Education and Research and is eligible for the Research Tax Credit program (CIR).
- Eligible for technological consulting and contracting via the so-called "chèques technologiques" for Wallonia or "KMO-portefeuille" for Flanders.



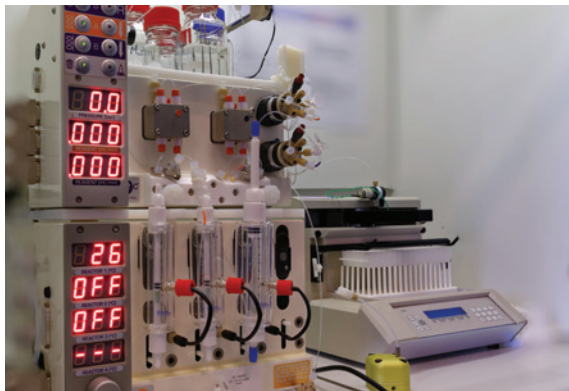
LIFE SCIENCES SECTOR

- Research & development partner in (bio)chemistry
- Supplier of analytical and technological services
- Platform of pilot equipment
- Products & Processes Development

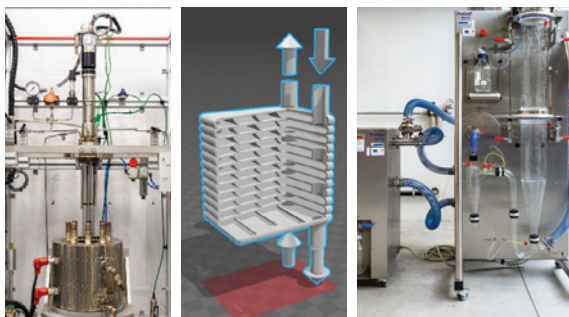


FACTORY OF THE FUTURE – PROCESS DEVELOPMENT

- › Modular, flexible, intensified reactors, continuous process, high temperatures and pressures
- › Sustainable, cleaner, leaner, faster processes, lower energy consumption, reduced environmental and safety risks
- › Reduced time to market, reduced capital and operating costs



- › Synthesis of target compounds
- › Development of (bio)chemical processes
- › Design and set-up of custom reactors
- › Micro/mesofluidic technologies
- › Catalytic structured reactors



Pilot equipment

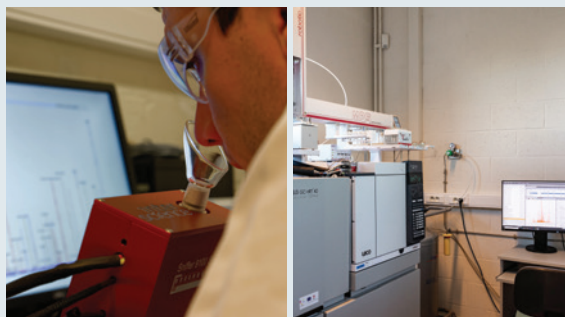
PRODUCT DEVELOPMENT

- › Formulation/encapsulation of active ingredients
- › Development of polymer and composite medical devices such as implants
- › Selection of materials for production equipment and devices
- › Conformity assessment of processes, semi-finished and finished materials



ADVANCED CHARACTERIZATION

- › Analysis of contaminations such as oligomers, additives, Non Intentionally Added Substances (NIAS), migration testing, extractables analysis
- › Analysis of enzyme
- › Analysis of odour
- › Structure / properties relationship
- › Analysis of chemical composition
- › Analysis of (nano)particle

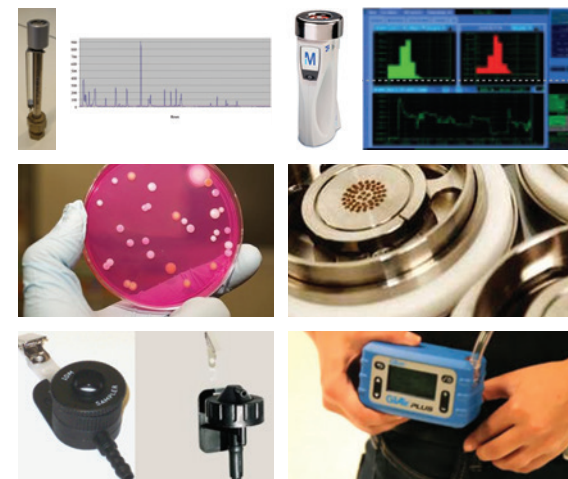


GC-TOFMS/Sniffing

GCxGC-HRTOFMS

ENVIRONMENT – HSE EXPERTISE

- › Risk assessment: working process, detection, inventory and prioritization of pollutants based on their hazards
- › Sampling and analysis: determination of Similar Exposed Groups (SEGs), analysis of chemicals, microbiological agents, (nano)particles, noise measurement
- › Assessment of workplace exposure levels, toxicological evaluation



Air sampling devices

- › Evaluation of personal protective equipment efficiency
- › Atmospheric pollution: evaluation of the quality of air, risks assessment and environmental impact
- › Circular economy, recycling

